

DEC 09 2003

SHEET 1 OF 1

Form PTO 143a (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV	SHEET 1 OF 1		SERIAL NO. 10/657,280
				APPLICANT William M. CANFIELD		TRADEMARK OFFICE REGISTRATION	
				FILING DATE September 9, 2003		GROUP 1652	
				U.S. PATENT DOCUMENTS			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	6,537,785	03-25-03	CANFIELD	424	94-61	
	AB	6,534,300	03-18-03	CANFIELD	435	195	
	AC	6,642,038	11-04-03	CANFIELD	435	195	
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	AO				YES	NO	
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	AW						
	AX						
	AY						
	AZ						<input type="checkbox"/> Additional References sheet(s) attached
Examiner		<i>T. Sardha</i>					Date Considered <i>12/10/04</i>
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							



SHEET 1 OF 2

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV	SHEET 1 OF 2		SERIAL NO. 10/657,280
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		September 9, 2003		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	AO						
	AP						
	AQ						
	AR						
	AS						
	AT						
	AU						
	AV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
JK8	AW	Sasaki, K., et al., "Expression cloning of a novel alpha 2,3-sialyltransferase using lectin resistance selection. J. Biol. Chem., October 1993, Vol. 268, No. 30, pages 22782-22787"					
	AX	Michel, B., et al., "Selection of an expression host for human glucocerebrosidase: importance of host cell glycosylation. UCLA Symposia on Molecular and Cellular Biology, 1990, Vol. 111 (Glycobiology), pages 159-172."					
	AY	Stanley, P., et al., "Selection and characterization of eight phenotypically distinct lines of lectin-resistant chinese hamster ovary cells. Cell, October 1975, Vol. 6, No. 2, pages 121-128."					
JK8	AZ	Zhao, K.W., et al., "Purification and Characterization of Human Lymphoblast N-acetylglucosamine-1-phosphotransferase. Glycobiol. 1992, Vol. 2, No. 2, pages 119-125" <input type="checkbox"/> Additional References sheet(s) attached					

T. Saradha 12/10/04



SHEET 2 OF 2

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV	SHEET 2 OF 2		SERIAL NO. 10/657,280
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		September 9, 2003			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	BA						
	BB						
	BC						
	BD						
	BE						
	BF						
	BG						
	BH						
	BI						
	BJ						
	BK						
	BL						
	BM						
	BN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	BO				YES	NO	
	BP						
	BQ						
	BR						
	BS						
	BT						
	BU						
	BV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
Jes	BW	Mullis, K.G., Purification and Kinetic Parameters of Bovine Liver N-acetylglucosamine-1-phosphodiester-alpha-N-acetylglucosaminidase. J. Biol. Chem., January 1994, Vol. 269, No. 3, pages 1718-1726.					
	BX	Do, H. et al., "Human Mannose 6-Phosphate-uncovering Enzyme is Synthesized as a Proenzyme that is Activated by the Endoprotease Furin. August 2002, J. Biol. Chem., Vol. 277, No. 33, pages 29737-29744.					
	BY	Lee, W.S., "Multiple Signals Regulate Trafficking of the Mannose 6-Phosphate-uncovering Enzyme", February 2002, Vol. 277, No. 5, pages 3544-3551					
JP	BZ					<input type="checkbox"/> Additional References sheet(s) attached	
Examiner <i>T. Sardha</i>				Date Considered <i>12/10/04</i>			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified) LIST OF REFERENCES CITED BY APPLICANT		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. NEW APPLICATION	
		APPLICANT WILLIAM M. CANFIELD		<i>10/657, 280</i>	
		FILING DATE HEREWITH	GROUP <i>1652</i>		
		U.S. PATENT DOCUMENTS			
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS
<i>Jes</i>	AA 5,968,502	10/19/99	TRECO ET AL	<i>424</i>	<i>93.21</i>
	AB 5,055,401	10/08/91	LILJESTROEM ET AL	<i>435</i>	<i>91.41</i>
	AC 5,202,253	04/13/93	ESMON ET AL	<i>435</i>	<i>331</i>
	AD 5,929,304	07/27/99	RADIN ET AL	<i>800</i>	<i>288</i>
	AE 5,580,757	12/03/96	DESNICK ET AL	<i>435</i>	<i>69.7</i>
<i>Jes</i>	AF 5,356,804	10/18/94	DESNICK ET AL	<i>435</i>	<i>208</i>
	AG 5,401,650	03/28/95	DESNICK ET AL	<i>435</i>	<i>208</i>
AH					
AI					
AJ					
AK					
AL					
AM					
AN					
FOREIGN PATENT DOCUMENTS					
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO	
AO					
AP					
AQ					
AR					
AS					
AT					
AU					
AV					
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)					
<i>Jes</i>	AW	SLY, "THE MISSING LINK IN LYSOSOMAL ENZYME TARGETING", THE JOURNAL OF CLINICAL INVESTIGATION, VOL. 105, NO. 5, PAGES 563-564, MARCH 2000			
	AX	RAAS-ROTHSCHILD ET AL, "MOLECULAR BASIS OF VARIANT PSEUDO-HURLER POLYDYSTROPHY (MUCOLIPIDOSIS IIIC)", THE JOURNAL OF CLINICAL INVESTIGATION, VOL. 105, NO. 5, PP. 673-681, MARCH 2000			
	AY	BAO ET AL, "BOVINE UDP-N-ACETYLGLUCOSAMINE: LYSOSOMAL-ENZYME N-ACETYLGLUCOSAMINE-1-PHOSPHOTRANSFERASE", THE JOURNAL OF BIOLOGICAL CHEMISTRY, VOL. 271, NO. 49, PP. 31446-31451, DECEMBER 6, 1996			
<i>Jes</i>	AZ	KORNFELD, "PURIFICATION AND MULTIMERIC STRUCTURE OF BOVINE N-ACETYLGLUCOSAMINE-1-PHOSPHODIESTER α -N-ACETYLGLUCOSAMINIDASE", THE JOURNAL OF BIOLOGICAL CHEMISTRY, VOL. 273, NO. 36, PP. 23203-23210, SEPTEMBER 4, 1998			
Examiner	<i>T. Sandha</i>			Date Considered	<i>10/10/2004</i>
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.					

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>JK</i>	BA	6,118,045	09/12/045	REUSER ET AL	800	14	
	BB	5,939,279	08/17/99	SMITH	435	7-32	
	BC	5,932,211	08/03/99	WILSON ET AL	424	94-6	
	BD	5,929,036	07/27/99	McEVER	514	25	
	BE	5,928,928	07/27/99	AERTS	435	201	
	BF	5,919,913	07/06/99	NUYENS ET AL	530	395	
	BG	5,919,690	07/06/99	KNAP ET AL	435	208	
	BH	5,917,122	06/29/99	BYRNE	800	18	
	BI	5,916,911	06/29/99	SHAYMAN EET AL	514	428	
	BJ	5,916,870	06/29/99	LEE ET AL	514	2	
	BK	5,914,231	06/22/99	HENNINK ET AL	435	6	
	BL	5,912,146	06/15/99	NISHIMURA ET AL	435	91-1	
	BM	5,911,704	06/15/99	HUMES	604	93-1	
	BN	5,906,817	05/25/99	MOULLIER ET AL	424	93-21	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO	
	BO						
	BP						
	BQ						
	BR						
	BS						
	BT						
	BU						
	BV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>JK</i>	BW	Alan D. Elbein et al, "KIFUNENSINE, A POTENT INHIBITOR OF THE GLYCOPROTEIN PROCESSING MANNOSIDASE I", The Journal of Biological Chemistry, Vol. 265, No. 26, Issue of September 15, pp. 15599-15605, 1990.					
<i>JK</i>	BX	Karen Gheesling MULLIS, et al., "Characterization and Immunolocalization of Bovine N-Acetylglucosamine-1-phosphodiester α -N-Acetylglucosaminidase", The Journal of Biological Chemistry, Vol. 269, No. 3, Issue of January 21, pp.1727-1733, (1994)					
<i>JK</i>	BY	Jin Kyu LEE, et al., "Purification and Characterization of Human Serum N-Acetylglucosamine-1-phosphodester α -N-Acetylglucosaminidase", Archives of Biochemistry and Biophysics, Vol. 319, No. 2, June 1, pp. 413-425, (1995)					
	BZ						
Examiner	<i>T - Saedha</i>				Date Considered <i>12/10/04</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JG	CA	5,895,833	04/20/99	BERG	800	14	
	CB	5,879,937	03/09/99	RONCAROLO	435	325	
	CC	5,874,297	02/23/99	WU ET AL	425	320.1	
	CD	5,871,946	02/16/99	LUCAS ET AL	435	18	
	CE	5,861,491	01/19/99	NUIJENS ET AL	530	417	
	CF	5,858,755	01/12/99	LOWE	435	198	
	CG	5,858,744	01/12/00	BAUM ET AL	435	456	
	CH	5,858,351	01/12/99	PODSAKOFF ET AL	424	93.2	
	CI	5,854,207	12/29/98	LEE ET AL	514	2	
	CJ	5,851,782	12/22/98	HANNUN ET AL	435	7.71	
	CK	5,849,885	12/15/98	NUYENS ET AL	530	416	
	CL	5,840,578	11/24/98	DESNICK	435	325	
	CM	5,830,916	11/03/98	HANNUM ET AL	514	625	
	CN	5,830,850	11/03/98	GELB ET AL	514	2	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO	
	CO						
	CP						
	CQ						
	CR						
	CS						
	CT						
	CU						
	CV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
JG	CW	R. O. BRADY, et al., "Modifying Exogenous Glucocerebrosidase for Effective Replacement Therapy in Gaucher", J. Inher. Metab. Dis., Vol. 17, (1994), pp. 510-519					
	CX	Emil D. KAKKIS, et al., "Overexpression of the Human Lysosomal Enzyme α -L-Iduronidase in Chinese Hamster Ovary Cells", Protein Expression and Purification, Vol. 5, (1994), pp.225-232					
	CY	Ke-Wei ZHAO, et al., "Carbohydrate Structures of Recombinant Human α -L-Iduronidase Secreted by Chinese Hamster Ovary Cells", The Journal of Biological Chemistry, Vol. 272, No. 36, Issue of September 5, pp.22758-22765 (1997)					
JG	CZ	Robin J. ZIEGLER, et al., "Correction of Enzymatic and Lysosomal Storage Defects in Fabry Mice by Adenovirus-Mediated Gene Transfer", Human Gene Therapy, Vol. 10, pp.1667-1682, (July 1, 1999)					
Examiner		<i>T. Sardha</i>		Date Considered <i>12/10/04</i>			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>JG</i>	DA	5,830,711	11/03/98	BARANY ET AL	435	91.1	
	DB	5,807,943	09/15/98	LEE ET AL	526	238.2	
	DC	5,798,448	08/25/98	CARAS ET AL	530	387.1	
	DD	5,798,239	08/25/98	WILSON ET AL	435	183	
	DE	5,792,647	08/11/98	ROSEMAN ET AL	435	252.3	
	DF	5,773,236	06/30/98	DIWU ET AL	435	15	
	DG	5,759,775	06/02/98	CARAS ET AL	435	6	
	DH	5,750,172	05/12/98	MEADE ET AL	426	580	
	DI	5,741,957	04/21/98	DEBOER ET AL	800	1	
	DJ	5,736,360	04/07/98	GAULTON ET AL	435	69.1	
	DK	5,728,381	03/17/98	WILSON ET AL	424	94.6	
	DL	5,723,585	03/03/98	BAKER ET AL	530	413	
	DM	5,721,367	02/24/98	KAY ET AL	800	18	
	DN	5,719,031	02/17/98	HAUGLAND ET AL	435	7.4	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	DO						
	DQ						
	DR						
	DS						
	DT						
	DU						
	DV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>JG</i>	DW	Huaichang SUN, et al., "Retrovirus Vector-Mediated Correction and Cross-Correction of Lysosomal α -Mannosidase Deficiency in Human and Feline Fibroblasts", Human Gene Therapy, Vol. 10, pp. 1311-1319, (May 20, 1999)					
<i>JG</i>	DX	Ajj REUSER, et al., "Lysosomal storage diseases: cellular pathology, clinical and genetic heterogeneity, therapy", Ann Biol Clin, (1994), Vol. 52, pp. 721-728					
	DY						
	DZ						
Examiner	<i>T. Sadha</i>				Date Considered <i>12/10/04</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE Herewith		GROUP			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE	
EA	5,716,614	02/10/98	KATZ ET AL	424	94.3		
EB	5,707,865	01/13/98	KOHN ET AL	435	325		
EC	5,704,910	06/06/98	HUMES	604	502		
ED	5,696,001	12/09/97	HABENSTEIN	436	578		
EE	5,693,622	12/02/97	WOLFF ET AL	514	44		
EF	5,691,181	11/25/97	LOWE	435	325		
EG	5,686,240	11/11/97	SCHUCHMAN ET AL	435	6		
EH	5,679,545	10/21/97	BAKER ET AL	435	69.1		
EI	5,665,366	09/09/97	RAWLINGS ET AL	424	401		
EJ	5,663,254	09/02/97	LEE ET AL	526	238.2		
EK	5,663,076	09/02/97	ROSTOKER ET AL	438	14		
EL	5,658,567	08/19/97	CALHOUN ET AL	424	94.61		
EM	5,648,335	07/15/97	LEWIS ET AL	514	12		
EN	5,648,229	07/15/97	HABENSTEIN	435	18		
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO			
EO							
EP							
EQ							
ER							
ES							
ET							
EU							
EV							
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
EW							
EX							
EY							
EZ							
Examiner	<i>T. Sardia</i>			Date Considered 12/10/04			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV	SERIAL NO. New U.S. Application		
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE Herewith	GROUP 1652				
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>16</i>	FA	5,639,939	06/17/97	McCUNE, III	800	11	
	FB	5,639,607	06/17/97	DESNICK ET AL	435	6	
	FC	5,633,261	05/27/97	DIME	514	299	
	FD	5,633,228	05/27/97	LEWIS ET AL	514	12	
	FE	5,627,171	05/06/97	PARK ET AL	514	114	
	FF	5,627,073	05/06/97	BAKER ET AL	435	331	
	FG	5,624,806	04/29/97	BAKER ET AL	435	7-1	
	FH	5,621,106	04/15/97	DIME	546	183	
	FI	5,612,206	03/18/97	VALERIO ET AL	435	456	
	FJ	5,585,247	12/17/96	HABENSTEIN	435	18	
	FK	5,583,160	12/10/96	IGARASHI ET AL	514	669	
	FL	5,578,479	11/26/96	LADERMAN ET AL	435	202	
	FM	5,576,424	11/19/96	MAO ET AL	536	17-9	
	FN	5,571,893	11/05/96	BAKER ET AL	530	350	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO	
	FO						
	FP						
	FQ						
	FR						
	FS						
	FT						
	FU						
	FV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	FW						
	FX						
	FY						
	FZ						
Examiner	<i>T. Saikha</i>			Date Considered	<i>12/10/04</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV	SERIAL NO. New U.S. Application		
		LIST OF REFERENCES CITED BY APPLICANT		APPLICANT William M. CANFIELD			
				FILING DATE Herewith	GROUP 1652		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	
JK	GA	5,571,675	11/05/96	BAKER ET AL	435	6	
	GB	5,569,648	10/29/96	LEWIS ET AL	514	12	
	GC	5,565,362	10/15/96	ROSEN	435	320.1	
	GD	5,554,366	09/10/96	RAWLINGS ET AL	424	78.03	
	GE	5,545,402	08/13/96	WATKINSON	424	94.63	
	GF	5,534,615	07/09/96	BAKER ET AL	530	350	
	GG	5,512,471	04/30/96	SMITH	435	208	
	GH	5,501,957	03/26/96	DENNIS ET AL	435	15	
	GI	5,494,810	02/27/96	BARANY ET AL	435	91.5A	
	GJ	5,491,075	02/13/96	DESNICK ET AL	435	69.7	
	GK	5,475,095	12/12/95	MYEROWITZ	536	23.1	
	GL	5,466,809	11/14/95	DIME	546	183	
	GM	5,449,604	09/12/95	SCHELLENBERG ET AL	435	6	
	GN	5,443,986	08/22/95	HAUGHLAND ET AL	435	4	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO	
	GO						
	GP						
	GQ						
	GR						
	GS						
	GT						
	GU						
	GV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	GW						
	GX						
	GY						
	GZ						
Examiner	T. Saikha				Date Considered	12/10/04	
<small>*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.</small>							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV	SERIAL NO. New U.S. Application <i>10/657,280</i>		
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP <i>1652</i>	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>JB</i>	HA	5,439,935	08/08/95	RAWLINGS ET AL	514	451	
	HB	5,433,946	07/18/95	ALLEN, JR. ET AL	49A	94-3	
	HC	5,420,112	05/30/95	LEWIS ET AL	514	12	
	HD	5,405,751	04/11/95	RONCAROLO	435	7-24	
	HE	5,382,524	01/17/95	DESNICK ET AL	435	200	
	HF	5,366,883	11/22/94	ASADA ET AL	435	20-2	
	HG	5,362,628	11/08/94	HAUGLAND	435	18	
	HH	5,344,352	09/06/94	HORNE ET AL	445	241	
	HI	5,316,906	05/31/94	HAUGLAND ET AL	435	4	
	HJ	5,310,646	05/10/94	WHITLEY	435	4	
	HK	5,296,365	03/22/94	OVERBEEKE ET EA	435	208	
	HL	5,281,394	01/25/94	HOLUB	422	65	
	HM	5,260,447	11/09/93	NAKAJIMA ET AL	548	222	
	HN	5,242,805	09/07/93	NALEWAY ET AL	435	18	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO	
	HO						
	HP						
	HQ						
	HR						
	HS						
	HT						
	HU						
	HV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	HW						
	HX						
	HY						
	HZ						
Examiner	<i>T. Sardha</i>				Date Considered	<i>12/10/04</i>	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JK	IA	5,217,865	01/08/93	MYEROWITZ	435	6	
	IB	5,208,148	05/04/93	HAUGLAND ET AL	435	14	
	IC	5,205,917	04/27/93	KLOCK, JR.	436	506	
	ID	5,179,023	01/12/93	CALHOUN ET AL	435	235.1	
	IE	5,166,320	11/24/92	WU ET AL	530	395	
	IF	5,143,841	09/01/92	HIRABAYSHI ET AL	435	227	
	IG	5,126,247	06/30/92	PALMER ET AL	435	25	
	IH	5,089,392	02/18/92	MILLER ET AL	435	21	
	II	5,802,778	01/21/92	OVERBEEKE ET AL	52	36.2	
	IJ	5,077,200	12/31/91	HABENSTEIN	435	14	
	IK	5,075,231	12/24/91	MOREAU ET AL	435	198	
	IL	5,061,025	10/29/91	MATTES ET AL	359	18	
	IM	5,060,428	10/29/91	ARTHUR, JR. ET AL	52	125.6	
	IN	5,015,470	05/14/91	GIBSON	514	2	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	IO				YES		NO
	IP						
	IQ						
	IR						
	IS						
	IT						
	IU						
	IV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	IW						
	IX						
	IY						
	IZ						
Examiner		T-Scudha				Date Considered 12/10/04	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO. 241990US77DIV	SERIAL NO. New U.S. Application
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT	William M. CANFIELD
		FILING DATE Herewith	GROUP 1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JB	5,001,072	03/19/91	OLSON	436	5	
JB	4,997,760	03/05/91	HIRABAYASHI ET AL	435	327	
JC	4,987,223	01/22/91	CHOAY ET AL	536	17-7	
JD	4,986,274	01/22/91	STEPHENS	600	443	
JE	4,981,801	01/01/91	SUZUKI ET AL	435	286	
JF	4,975,441	12/04/90	GIBSON	514	328	
JG	4,866,042	09/12/89	NEUWELT	424	93-2	
JH	4,851,390	07/25/89	MORISHIGE	514	44	
JI	4,798,169	01/17/89	ROSEN ET AL	119	223	
JJ	4,749,570	06/07/88	POZNANSKY	435	188	
JK	4,659,817	04/21/87	GALLOP ET AL	540	541	
JL	4,639,420	01/27/87	SCHAFFNER	435	7-1	
JM	4,615,884	10/07/86	HARSHMAN	424	237-1	
JB	4,595,015	06/17/86	JANSEN ET AL	600	586	

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES	NO
JO					
JP					
JQ					
JR					
JS					
JT					
JU					
JV					

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

JW	
JX	
JY	
JZ	

Examiner

T. Saidda

Date Considered

12/10/04

*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JK	KA	4,496,722	01/29/85	GALLOP ET AL	544	69	
	KB	4,492,761	01/08/85	DURACK	436	519	
	KC	4,474,770	10/02/84	LORMEAU ET AL	514	56	
	KD	4,452,794	06/05/84	KORT ET AL	514	179	
	KE	4,433,946	02/28/84	CHRISTIANSON ET AL	406	43	
	KF	4,431,737	02/14/84	OLIVIERI ET AL	435	448	
	KG	4,401,758	08/30/83	LORMEAU ET AL	435	84	
	KH	4,401,662	08/30/83	LORMEAU ET AL	514	56	
	KI	4,332,894	06/01/82	WHISTLER	435	99	
	KJ	4,328,215	05/04/82	BUEDING	514	29	
	KK	4,195,126	12/23/80	HALL	435	11	
	KL	4,156,013	03/22/79	BRUINVELS ET AL	514	567	
	KM	4,140,107	02/20/79	LANCEE ET AL	600	443	
	KN	3,972,777	08/03/76	YAMADA ET AL	435	208	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	KO				YES	NO	
	KP						
	KQ						
	KR						
	KS						
	KT						
	KU						
	KV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	KW						
	KX						
	KY						
	KZ						
Examiner	<i>T. Saadha</i>				Date Considered	12/10/04	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
JK	LA	3,966,555	06/29/76	ARNAUD ET AL	435/208	514 315	
	LB	3,957,578	05/18/76	NARITA ET AL	435	208	
	LC	RE35,770	04/14/98	LORMEAU ET AL	514	56	
	LD	5,773,278	06/30/98	SCHUCHMAN ET AL	435	358	
	LE	5,798,366	08/25/98	PLATT ET AL	514	315	
JK	LF	5,635,383	06/03/97	WU ET AL	435	458	
	LG						
	LH						
	LI						
	LJ						
	LK						
	LL						
	LM						
	LN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	LO				YES	NO	
	LP						
	LQ						
	LR						
	LS						
	LT						
	LU						
	LV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
	LW						
	LX						
	LY						
	LZ						
Examiner	T. Saidha				Date Considered 12/10/04		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT		William M. CANFIELD			
		FILING DATE		Herewith		GROUP	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	MA						
	MB						
	MC						
	MD						
	ME						
	MF						
	MG						
	MH						
	MI						
	MJ						
	MK						
	ML						
	MM						
	MN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	MO				YES	NO	
	MP						
	MQ						
	MR						
	MS						
	MT						
	MU						
	MV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
JK	MW	KORNFIELD, R. et al. "Molecular Cloning and Functional Expression of Two Splice Forms of Human N-Acetylglucosamine-1-phosphodiester alpha-N-Acetylglucosaminidase" J. Biol. Chem. 12, November 1999. Vol. 274, No. 46, pages 32778-32785					
	MX	CUOZZO, J. W. et al. "Lysine is a Common Determinant for Mannose Phosphorylation of Lysosomal Proteins" J. Biol. Chem. 20, May 1994. Vol. 269. No. 20. Pages 14490-14496.					
	MY	KORNFIELD, S. "Trafficking of Lysosomal Enzymes in Normal and Disease States", J. Clin. Invest., Vol. 77, January 1986, pp. 1-6.					
JK	MZ	KORNFIELD, S. "Lysosomal Enzyme Targeting", Biochemical Society Transactions, Jubilee Lecture Delivered on 19 December 1989, Vol. 18. pp. 367-374					
Examiner		<i>T. Scidra</i>			Date Considered <i>12/10/04</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77	SERIAL NO. NEW U.S. APPLICATION		
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE HEREWITH	GROUP 1652		
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	NA						
	NB						
	NC						
	ND						
	NE						
	NF						
	NG						
	NH						
	NI						
	NJ						
	NK						
	NL						
	NM						
	NN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	NO	99/31117	06/24/99	WIPO	YES	NO	
	NP						
	NQ						
	NR						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>JG</i>	NT	Ke-Wei ZHAO, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphotransferase", Glycobiology, Vol. 2, no. 2, pp. 119-125, 1992					
	NT	Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", DNA Research, Vol. 6, pp. 337-345, 1999					
	NU	XP-002226188, "KIAA1208 protein (Fragment)", From Takahiro NAGASE, et al., "Prediction of the Coding Sequences of Unidentified Human Genes. XV. The Complete Sequences of 100 New(cDNA Clones from Brain Which Code for Large Proteins <i>in vitro</i> ", DNA Research, Vol. 6, pp. 337-345, 1999					
<i>JG</i>	NV	XP-002226187, "Basic domain/leucine zipper transcription factor (Fragment)", From CORDES, et al., "The mouse segmentation gene kr encodes a novel basic domain-leucine zipper transcription factor" (1994), Cell, Vol. 7, No. 9, pp.1025-1034					
				<input type="checkbox"/> Additional References sheet(s) attached			
Examiner	<i>T. Sardha</i>				Date Considered <i>12/10/04</i>		
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT William M. CANFIELD					
		FILING DATE Herewith		GROUP <i>1652</i>			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	OA						
	OB						
	OC						
	OD						
	OE						
	OF						
	OG						
	OH						
	OI						
	OJ						
	OK						
	OL						
	OM						
	ON						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
					YES	NO	
	OO						
	OP						
	OQ						
	OR						
	OS						
	OT						
	OU						
	OV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>Jb</i>	OW	Theodore PAGE, et al., "Purification and characterization of human lymphoblast N-acetylglucosamine-1-phosphodiester alpha-N-acetylglucosaminidase", Glycobiology, Vol. 6, no. 6, pp. 619-626, 1996					
<i>Jb</i>	OX	Thomas J. BARANSKI, et al., "Lysosomal Enzyme Phosphorylation", The Journal of Biological Chemistry, Vol. 267, No. 32, Issue of November 15, pp. 23342-23348, 1992					
	OY						
	OZ	<input type="checkbox"/> Additional References sheet(s) attached					
Examiner <i>T. Sandha</i>				Date Considered <i>12/10/04</i>			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO. 241990US77DIV		SERIAL NO. New U.S. Application	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT William M. CANFIELD			
				FILING DATE Herewith		GROUP <i>16S2</i>	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	PA						
	PB						
	PC						
	PD						
	PE						
	PF						
	PG						
	PH						
	PI						
	PJ						
	PK						
	PL						
	PM						
	PN						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION		
	PO				YES	NO	
	PP						
	PQ						
	PR						
	PS						
	PT						
	PU						
	PV						
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)							
<i>JKB</i>	PW	Ritva TIKKANEN, et al., "Several cooperating binding sites mediate the interaction of a lysosomal enzyme with phosphotransferase", The EMBO Journal, vol. 16, No. 22, pp. 6684-6693, 1997					
	PX	Fumito MATSUURA, et al., "Human alpha-galactosidase A: characterization of the N-linked oligosaccharides on the intracellular and secreted glycoforms overexpressed by Chinese hamster ovary cells", Glycobiology, vol. 8, no. 4, pp. 329-339, 1998					
	PY	Shiroh MAGUCHI, et al., "Elevated Activity and Increased Mannose-6-phosphate in the Carbohydrate Moiety of Cathepsin D from Human Hepatoma", Cancer Research, Vol. 48, pp. 362-367, January 15, 1988					
<i>JKB</i>	PZ	Norman W. Barton, et al., "Therapeutic response to intravenous infusions of glucocerebrosidase in a patient with Gaucher disease", Proc. Natl. Acad. Sci. USA, Vol. 87, pp. 1913-1916, March 1990					
				<input type="checkbox"/> Additional References sheet(s) attached			
Examiner <i>T. Sreedha</i>				Date Considered <i>18/10/04</i>			
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							